

ABSTRACT OF THE DISCLOSURE

A receiving apparatus in an OFDM transmission system includes a channel estimation unit (101) for measuring a delay profile of a delayed wave having a
5 delay greater than a guard interval of data; a guard-interval-exceed delayed wave detector (103) for detecting, from the delay profile as an intersymbol interference (ISI) portion, a delay-time portion greater than the guard interval of the data; a ISI
10 replica generator (104) for generating, as the ISI replica, a time-waveform portion of a known symbol conforming to the ISI portion, or a time-waveform portion of the preceding symbol; subtractor (102) for subtracting the ISI replica from a receive signal; and
15 an FFT arithmetic unit (106) for demodulating data by applying FFT processing to the result of subtraction.